AMENDMENT TO THE SPECIFICATION

Please amend the abstract of the instant application as follows:

A stochastic processor of the present invention ~~comprises~~ <u>includes</u> a fluctuation generator [[(15)]] configured to output an analog quantity having a fluctuation, a fluctuation difference calculation means [[(401)]] configured to output fluctuation difference data with an output of the fluctuation generator added to analog difference between two data, a thresholding unit [[(47)]] configured to perform thresholding on an output of the fluctuation difference calculation means to thereby generate a pulse, and a pulse detection means configured to detect the pulse output from the thresholding unit.